

2

Sheet 1 of 4

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

107317-00039

SERIAL NO

Div. of 08/787,451

LIST OF REFERENCES CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT

HASHIMOTO et al.

FILING DATE

Herewith

GROUP

2823

1991 U.S. PTO
10/028429

12/28/01

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
K.N.	AA	4,563,367	1/7/86	SHERMAN	156	643	
K.N.	AB	4,564,997	1/21/86	MATSUO ET AL.	156	647	
K.N.	AC	5,016,564	5/21/91	NAKAMURA ET AL.	156	345	
K.N.	AD	4,960,073	10/2/90	SUZUKI ET AL.	156	345	
K.N.	AE	5,022,977	6/11/91	MATSUOKA ET AL.			
K.N.	AF	5,259,922	11/9/93	YAMMNO ET AL.	156	643	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO PART.		
K.N.	AG	5-90224	4/9/93	JAPAN					
K.N.	AH	60/117723	6/25/85	JAPAN					
K.N.	AI	4-340717	11/27/92	JAPAN					
K.N.	AJ	2-94628	4/5/90	JAPAN	156	345			
K.N.	AK	1-14920	1/19/89	JAPAN	156	345			
K.N.	AL	1-32631	2/2/89	JAPAN	156	345			

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

K.N.	AM	N. Jiwari et al., Japan J. Appl. Phys. 32(6b) 3019 "Al etching...helicon wave plasma", 6/1993.
K.N.	AN	Y. Ra et al., J. Vac. Sci. Technol. 11(6) 2911 :Direct current bias...transformer coupled plasma etcher, 11/1993.
K.N.	AO	M.W. Horn et al., Optical Eng. 32(10) 2388 "Comparison of etching tools...", 10/1993.

EXAMINER

DATE CONSIDERED

Khemmagayen

12/5/02

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

2

Sheet 2 of 4

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

107317-00039

SERIAL NO.

Div. of 08/787,451

LIST OF REFERENCES CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT

HASHIMOTO et al.

FILING DATE

Herewith

GROUP

2823

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
K.N.	AA	5,344,536	9/6/94	OBUCHI et al..	156	643	
K.N.	AB	5,156,703	10/20/92	OECHSNER	156	643	
K.N.	AC	5,183,777	2/2/93	DORI et al.	437	225	
K.N.	AD	5,444,207	8/22/95	SEKINE et al.	204	298	
K.N.	AE	5,290,382	3/1/94	ZAROWIN et al.	204	298	
K.N.	AF	4,298,419	11/3/81	SUZUKI et al.	216	70	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO PART.		
K.N.	AG	04-354124	12/8/92	JAPAN					
K.N.	AH	5-234955	9/10/93	JAPAN	216	70			
K.N.	AI	63-43324	2/24/88	JAPAN	156	345			
K.N.	AJ	4-354124		Japan					
	AK								
	AL								

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

K.N.	AM	"Charging Damage to Gate Oxides in a O ₂ Magnetron Plasma", Fang et al., J. Appl. Phys., Vol. 72, No. 10, November 15, 1992, pgs 4865-4872.
K.N.	AN	H. Nihei et al., Rev. Sci. Instrum., 63 (3) March 1992, pgs. 1932, "...Plasma source using an axial mirror and multiple fields".
K.N.	AO	M. Shimada et al., J. Vac. Sci. Technol. A 11(11), July/August 1993, pg. 1313, "Compact ECR ion source with a permanent magnet".

EXAMINER

Khiennguyen

DATE CONSIDERED

12/5/02

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

2

Sheet 3 of 4

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

107317-00039

SERIAL NO

Div. of 08/787,451

LIST OF REFERENCES CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT

HASHIMOTO et al.

FILING DATE

Herewith

GROUP

2823

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
K.N.	AA	5,368,685	11/29/94	KUMIHASHI et al.	216	70	
K.N.	AB	4,971,651	11/20/90	WATANABE et al.	216	70	
K.N.	AC	5,350,710	9/27/94	HONG et al.	156	643	
K.N.	AD	5,378,311	1/3/95	NAGAYAMA et al.	156	643	
	AE						
	AF						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO PART.		
	AG								
	AH								
	AI								
	AJ								
	AK								
	AL								

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

K.N.	AM	K. Junck et al., J. Vac. Sci. Technol. A12(3), May/June 1994, pg760, "ECR plasmas in 3 magnetic field configurations"
K.N.	AN	V. Hashimoto, Japan J. Appl. Phys., 32 (1993) 6109, "Charge Damage in Plasma Etching...through Antenna".
K.N.	AO	S. Samukawa et al., J. Vac Sci. Technol, B93 (1991) 1471 "400 KMZ RF biased ECR plasma etching for"

EXAMINER

DATE CONSIDERED

K.B. Cunningham

12/5/02

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

2

Sheet 4 of 4

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY DOCKET NO

107317-00039

SERIAL NO

Div. of 08/787,451

LIST OF REFERENCES CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT

HASHIMOTO et al.

FILING DATE

Herewith

GROUP

2823

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO PART.		
	AG								
	AH								
	AI								
	AJ								
	AK								
	AL								

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

K.N.	AM	S. Samukawa, Japan J. Appl. Phys. 30, 11B (1991) 3154 "400 KHZ RF biased ECR resonance position etching".
K.N.	AN	S. Wolf & R.N. Tauber, "Silicon processing for the ULSI era", Vol I, 1986, pg.581.
K.N.	AO	S. Wolf, "Silicon processing for the ULSI era", Sheet <u>1</u> of <u>2</u> ol. II, 1992, pg53, 237-8.

EXAMINER

K. N. M. S. S. S.

DATE CONSIDERED

12/5/02

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.